

PRELIMINARY AGENDA

E-Vision2002: Shaping Our Future By Reducing Energy Intensity In The U.S. Economy

Sponsored by U.S. Department of Energy,
Office of Energy Efficiency and Renewable Energy

May 14-16, 2002
Crystal Gateway Marriott
Arlington, Virginia

TUESDAY, MAY 14, 2002

12:00 noon **Registration**

1:00 pm **Opening Plenary**

Chair: **David K. Garman**, Assistant Secretary, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

Opening Remarks: **David K. Garman**

Keynote Speaker: **John H. Marburger III**, Director of the Office of Science and Technology Policy

Agenda Review: **Douglas R. Brookman**, Public Solutions, Inc. ([PDF 169 KB](#))

1:45 pm **SESSION 1: ENERGY INTENSITY CONTEXT**

What are some of the principal factors affecting our ability to reduce energy intensity in the U.S. economy? Presenters will describe energy use vis-à-vis economic productivity and market- and efficiency-based investment decisions. The session will also clarify the challenges of using energy intensity as a proxy for energy efficiency, and whether structural factors mask the measure of real efficiency improvements.

Chair: **Abe Haspel**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

Speakers:

Energy in the Broader Context of the Total Productivity of the Economy,

Michael Harper, Chief of the Division of Productivity Research, Office of Productivity and Technology, U.S. Bureau of Labor Statistics ([PDF 155 KB](#))

What is Meant by Reducing Energy Intensity, if What We Really Want to Measure is Energy Efficiency?

Lee Schipper, World Resources Institute, and Senior Advisor for Transport, Shell Foundation ([PDF 393 KB](#))

2:45 pm **Break**

3:05 pm

SESSION 2: HISTORICAL TRENDS AND THE RANGE OF POSSIBLE ENERGY INTENSITY FUTURES

What are the emerging trends in energy service demands that are important to consider over the next 20 years? What are possible energy intensity futures for the nation and the principal energy-consuming sectors? This session will examine historical and projected changes in energy service demands and energy intensity.

Chair: **Joe Roop**, Senior Research Economist, Pacific Northwest National Laboratory ([PDF 81 KB](#))

Speakers:

Buildings Sector Energy Intensity Trends and Projections,
Dave Belzer, Staff Scientist, Pacific Northwest National Laboratory ([PDF 152 KB](#))

Transportation Sector Energy Intensity Trends and Projections,
David Greene, Corporate Fellow, Oak Ridge National Laboratory ([PDF 155 KB](#))

Electricity Sector Energy Intensity Trends and Projections,
Hill Huntington, Executive Director, Energy Modeling Forum, Stanford University ([PDF 93 KB](#))

Industrial Sector Energy Intensity Trends and Projections,
Gale Boyd, Economist, Policy and Economic Analysis Group, Argonne National Laboratory ([PDF 112 KB](#))

4:00 pm

Open Discussion

4:30 pm

SESSION 3: ROUNDTABLE DISCUSSION ON REDUCING ENERGY INTENSITY

Where should we be in 2020, and how can we get there? Distinguished experts from across the nation representing industry; federal, state, and local governmental agencies and academia will hold a roundtable discussion on the emerging trends in energy service demand, possible energy intensity futures, and how they might be attained.

Facilitator: **Douglas R. Brookman**, Public Solutions, Inc.

Participants:

- **William J. Keese**, Chairman of the California Energy Commission and Chair of NASEO
- **Neal Schilke**, General Director of Engineering, General Motors Corporation
- **Roger Platt**, Senior Vice President and Counsel, Real Estate Roundtable ([PDF 463 KB](#))
- **Thomas R. Casten**, Chairman & CEO, Private Power LLC
- **Henry Lee**, Director, Environment and Natural Resources, Kennedy School of Government, Harvard University

6:00 pm

Adjourn

6:15 pm Reception (cash bar)

WEDNESDAY, MAY 15, 2002

8:00 am Continental Breakfast

8:30 am **SESSION 4: LESSONS LEARNED - PRIVATE SECTOR EXPERIENCES WITH REDUCING ENERGY INTENSITY**

What works or does not work in the private sector, and why? What do past experiences tell us about the levels of reduction in energy intensity that are possible?
The experiences of companies in achieving different levels of reduction in their energy intensity will be highlighted.

Chair: **Richard Newell**, Fellow, Energy and Natural Resources Division, Resources for the Future

Speakers:

Randy Overbey, President, Energy Division, Primary Metals, Alcoa ([PDF 435 KB](#))

Susan Cischke, Vice President, Environmental & Safety Engineering, Ford Motor Company ([PDF 698 KB](#))

Jay Epstein, President, Health E-Community Enterprises of Virginia Inc. ([PDF 5.9 MB](#))

9:30 am Open Discussion

10:00 am Break

10:30 am **SESSION 5: LESSONS LEARNED - STATE AND LOCAL GOVERNMENT EXPERIENCES WITH REDUCING ENERGY INTENSITY**

What works or does not work in states and cities, and why? What do past experiences tell us about the levels of reduction in energy intensity that are possible?
Presentations will focus on the range of results among some of the state and local governments in reducing their energy intensity. Among the factors discussed will be economic considerations, infrastructure, and climate differences.

Chair: **John F. Nunley, III**, Manager, State Energy Programs, Wyoming Business Council, Vice Chair of NASEO and STEAB member

Speakers:

Analysis of State Experiences with Reducing Energy Intensity, Factors that Distinguish States, and National Relevance

Mark Bernstein, Senior Policy Analyst, RAND ([PDF 1.0 MB](#))

Brian Henderson, Program Director, New York State Energy Research & Development Authority (NSYERDA) ([PDF 440 KB](#))

Sharron Brown, Public Technology, Inc, and Director of the Urban Consortium Energy

Task Force ([PDF 480 KB](#))

11:30 am **Open Discussion**

12:00 noon **SESSION 6: LIGHTNING ROUND**

What are the most compelling features to focus on to establish a national priority for energy efficiency? All conference attendees are invited to participate in brief, small-group discussions of this key question. They should draw upon the information just presented on context, trends and possible future scenarios, and lessons learned from the private and public sectors. After lunch each group will give a brief report back.

Facilitator: **Douglas R. Brookman**, Public Solutions, Inc.

12:20 pm **Luncheon**

2:00 pm **SESSION 6 (CONTINUED): LIGHTNING ROUND REPORT BACK**

A representative from each small group will briefly describe 1-2 leading elements of the group's response to the session's key question. These results will be recorded.

Facilitator: **Douglas R. Brookman**, Public Solutions, Inc.

2:45 pm **SESSION 7: LESSONS LEARNED - FEDERAL GOVERNMENT EXPERIENCES PARTNERING WITH BUSINESS AND GOVERNMENT COMMUNITIES TO FACILITATE ENERGY EFFICIENCY IMPROVEMENTS**

What are the features of federal programs that support private- and public-sector efforts to improve energy efficiency and reduce intensity? To help stimulate discussion, presentations will be made on several federal programs that have been successful in this regard.

Chair: **Steve Nadel**, Executive Director, American Council for an Energy Efficient Economy

Speakers:

Jim Schultz, Vice President of Energy and Environment, American Iron and Steel Institute ([PDF 1.5 MB](#))

John A. "Skip" Laitner, Senior Economist for Technology Policy, Office of Atmospheric Programs, U.S. Environmental Protection Agency ([PDF 1.3 MB](#))

3:45 pm **Break**

4:15 pm **SESSION 8: CONCURRENT BREAKOUT SESSIONS: OPPORTUNITIES FOR TECHNOLOGY AND MARKET CHANGES TO REDUCE ENERGY INTENSITY IN THE INDUSTRIAL AND BUILDING SECTORS**

For the Industrial and Buildings Sectors, what are the technologies, research pathways, and market changes that might be needed for future reductions in energy intensity? Speakers will explore this question within each of the concurrent sessions, in light of the specific sector under discussion. The Rapporteur for the session will comment on the presentations and offer his/her individual perspective. Ample time will be allotted for open floor discussion.

SESSION 8A: INDUSTRIAL

Chair: **Denise Swink**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

Speakers:

John A.S. Green, Consultant, former Vice President of Technology, The Aluminum Association, Inc. ([PDF 1.3 MB](#))

Gunnar Hovstadius, Director of Technology, ITT Fluid Technology Corporation

Rapporteur:

David C. Mowery, Professor, Haas School Business, University of California, Berkeley

5:15 pm **Open Discussion**

SESSION 8B: BUILDINGS

Chair: **Mark Ginsberg**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

Speakers:

Joseph Oberle, General Manager, Lighting Technology Division, General Electric Company ([PDF 610 KB](#))

Rapporteur:

Vivian Loftness, Professor and Head of the School of Architecture, Carnegie-Mellon University

5:15 pm **Open Discussion**

6:00 pm **Adjourn**

6:15 pm **Dinner**

Speaker:

Honorable Zach Wamp, Congressman for the 3rd District of Tennessee, U.S. House of Representatives and Co-chairman of the House Energy Efficiency and Renewable Energy Caucus

THURSDAY, MAY 16, 2002

7:30 am **Continental Breakfast**

8:30 am **SESSION 9: CONCURRENT BREAKOUT SESSIONS: OPPORTUNITIES FOR TECHNOLOGY AND MARKET CHANGES TO REDUCE ENERGY INTENSITY IN THE TRANSPORTATION AND ELECTRIC POWER SECTORS**

For the Transport and Electric Power Sectors, what are the technologies, research pathways, and market changes that might be needed for future reductions in energy intensity? Speakers will explore this question within each of the concurrent sessions, in light of the specific sector under discussion. The Rapporteur for the session will comment on the presentations and offer his/her individual perspective. Ample time will be allotted for open floor discussion.

SESSION 9A: TRANSPORT

Chair: **Edward Wall**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

Speakers:

Kevin Green, Volpe National Transportation Systems Center

Bernard Robertson, Senior Vice President for Engineering Technology, Daimler-Chrysler Corporation ([PDF 427 KB](#))

Rapporteur:

Daniel Sperling, Director, Institute of Transportation Studies, University of California at Davis ([PDF 856 KB](#))

9:30 am **Open Discussion**

SESSION 9B: ELECTRIC POWER

Chair: **Robert Dixon**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy

Speakers:

Roy E. Hamme, Manager EHS Issues, Corporate Environment, Health & Safety, Duke Energy Corporation

Anda Ray, Director, Public Power Institute, Tennessee Valley Authority ([PDF 343 KB](#))

Marty Kushler, Director, Utility Programs at American Council for an Energy-Efficient Economy ([PDF 86 KB](#))

Rapporteur:

Terry Surles, Director, Technology Systems Division, California Energy Commission ([PDF 346 KB](#))

9:30 am **Open Discussion**

10:15 am **Break**

10:45 am **SESSION 10: REPORTS FROM THE CONCURRENT SESSIONS AND OPEN FLOOR DISCUSSION**

*Chairs of sessions 8 and 9 will provide five-minute reports conveying the key points from the breakout sessions. The floor will then be open for additional comments from participants, with a focus on the question, "**What could be done to achieve further reductions in energy intensity, and how?**" The Chair of this session will briefly summarize this exchange, and direct follow-up questions to the appropriate chair of the concurrent sessions, or to members of the audience.*

Chair: **James L. Sweeney**, Professor, Management Science and Engineering, and Senior Fellow, Stanford Institute for Economic Policy Research, Stanford University

Speakers:

*Industry, **Denise Swink**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy*

*Buildings, **Mark Ginsberg**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy*

*Transportation, **Edward Wall**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy*

*Electric Power, **Robert Dixon**, Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy*

11:15 am **Open Discussion**

12:00 pm **SESSION 11: WORKING LUNCHEON
SPECIAL TOPIC: IDEAS AND OPTIONS FOR ESTABLISHING A NATIONAL PRIORITY FOR ENERGY EFFICIENCY**

*This luncheon session will focus on the question - **How Should We Begin to Establish a National Priority for Energy Efficiency?** Assistant Secretary David Garman will make a presentation to synthesize the conference proceedings. This will be immediately followed by an open discussion to help Mr. Garman generate the primary outcomes of the conference for presentation to the Secretary of Energy, for his consideration in establishing a national priority for energy efficiency. In this session, participants will be encouraged to help further define key issues and develop particular ideas, based on their areas of expertise and what they have learned at the conference. This will be a final opportunity to address areas that were not thoroughly discussed or that need more emphasis.*

Moderator: **Douglas R. Brookman**, Public Solutions, Inc.

Speaker:

Reflections on Establishing a National Priority for Improving Energy Efficiency
David K. Garman, Assistant Secretary, Energy Efficiency and Renewable Energy, U.S. Department of Energy

1:00 pm **Open Discussion**

2:00 pm

Closing Remarks
David K. Garman